

What is claimed is:

1. A liquid crystal display device comprising:

light generating means for generating a light;

5 receiving means for receiving the light generating means;

power supplying means mounted on a rear surface of the receiving means, for

supplying a power to the light generating means;

power supplying lines connected between the light generating means and the

power supplying means, for supplying the power to the light generating means; and

fixing means formed on the receiving means, for guiding the power supplying

lines to the power supplying means and preventing the power supplying lines from

being departed from the receiving means.

2. The liquid crystal display device of claim 1, wherein the fixing means

comprises a plurality of projections formed and spaced apart from one another at a predetermined distance on the rear surface of the receiving means, guide grooves formed on the rear surface of the receiving means, or an adhesive tape.

formed on the rear surface of the receiving means, or an adhesive tape.

3. The liquid crystal display device of claim 1, wherein the light generating

20 means is a cold cathode type of a fluorescent lamp.

4. The liquid crystal display device of claim 1, wherein the receiving

means includes a bottom chassis for receiving the light generating means and a mold

frame for receiving the bottom chassis, which has an opening formed in a bottom

25 surface of the mold frame.

5. The liquid crystal display device of claim 4, wherein the power supplying means is disposed on the rear surface of the bottom chassis and the fixing means is formed on the mold frame to be placed between the power supplying means
5 and the light generating means.

6. A liquid crystal display device comprising:
displaying means for displaying an image;
receiving means for receiving the displaying means;
10 a printed circuit board installed on a rear surface of the receiving means, for controlling an operation of the displaying means; and
shielding means mounted on the rear surface of the receiving means, for shielding an electromagnetic wave from the displaying means and the printed circuit board.

15 7. The liquid crystal display device of claim 6, further comprising a connecting cable for connecting the displaying means to the printed circuit board.

8. The liquid crystal display device of claim 7, wherein the printed circuit board is power supplying means for supplying a power to the displaying means, which is mounted on the rear surface of the receiving means, or converting means for converting a signal supplied to the displaying means, which is installed on the rear surface of the receiving means.

25 9. The liquid crystal display device of claim 7, wherein the shielding

means has a connection opening formed at a side wall at an end thereof, through which lines for supplying a desired voltage to the printed circuit board is connected to the printed circuit board.

5 10. The liquid crystal display device of claim 9, wherein the connection opening has a closed shape in that part of the connection opening is connected to each other, in order to improve a shielding efficiency of the electromagnetic wave by means of the shielding means.

10 11. The liquid crystal display device of claim 8, wherein the shielding means has a plurality of through-holes formed at a position corresponding to a predetermined portion of the power supplying means in order to discharge heat from the power supplying means.

15 12. The liquid crystal display device of claim 11, wherein the plurality of through-holes is formed to face to a transformer of the power supplying means.

20 13. A liquid crystal display device comprising:
displaying means for displaying an image;
receiving means for receiving the displaying means;
a printed circuit board mounted on a rear surface of the receiving means, for controlling an operation of the displaying means;
a connection cable for connecting the displaying means to the printed circuit board; and
25 fixing means for fixing the printed circuit board to the receiving means.

14. The liquid crystal display device of claim 13, wherein the printed circuit board is fixed to the rear surface of the receiving means to be placed between the displaying means and the fixing means.

5 15. The liquid crystal display device of claim 14, wherein the receiving means includes a bottom chassis for receiving the display means and a mold frame for receiving the bottom chassis.

10 16. The liquid crystal display device of claim 15, wherein the printed circuit board is overlapped at an end thereof with the fixing means.

15 17. The liquid crystal display device of claim 16, wherein the fixing means is a bracket that is combined at an end with the printed circuit board and at a second end with the rear surface of the receiving means.

20 18. The liquid crystal display device of claim 17, wherein the fixing means is combined at the first end with the printed circuit board and at the second end with a combination structure formed in the receiving means, so as to be fixed to the rear surface of the bottom chassis.

25 19. The liquid crystal display device of claim 16, wherein the fixing means has a lower height than a highest one of circuit elements constructing the printed circuit board.

20. A liquid crystal display device comprising:

receiving means for receiving an image displaying means, the receiving means having at least one of a first locking structure formed on a bottom surface;

a printed circuit board installed on a rear surface of the receiving means, for operating the displaying means;

5 fixing means which is combined with the printed circuit board and which has at least one of a second locking structure formed thereon; and

shielding means for shielding an electromagnetic wave from the printed circuit board, the shielding means being mounted on the rear surface of the receiving means and having at least one of a third locking structure formed thereon,

10 wherein the shielding means and the printed circuit board are fixed to the receiving means in such a manner as locking means extend through the corresponding locking structure of the first, second and third locking means from an outside of the shielding means to the displaying means and are respectively combined with the corresponding locking structure.

15 21. The liquid crystal display device of claim 20, wherein the receiving means includes a bottom chassis for receiving the displaying means and a mold frame for receiving the bottom chassis.

20 22. The liquid crystal display device of claim 20, wherein the locking means is combined at a first end with the printed circuit board and at a second end with the locking structure formed on the receiving means so as to be fixed to a rear surface of the bottom chassis.

25 23. The liquid crystal display device of claim 20, wherein an area of the

shielding means on which the third locking means is formed is depressed toward the displaying means.

24. The liquid crystal display device of claim 20, wherein the first, second
5 and third locking structures of the shielding means respectively have a screwed hole
through which screws are respectively extended.

25. A liquid crystal display device comprising:

displaying means for displaying an image;

10 receiving means for receiving the displaying means, the receiving means

having a guide groove formed thereon; and

shielding means combined to a rear surface of the receiving means, for
shielding an electromagnetic wave,

15 wherein the shielding means is guided to a position to be combined with the
receiving means in such a manner as the shielding means slides along the guide
groove from one end to the other end of the rear surface of the receiving means.

26. The liquid crystal display device of claim 20, wherein the receiving
means includes a bottom chassis for receiving the displaying means and a mold frame,
20 on which the guide groove is formed, for receiving the bottom chassis.

27. The liquid crystal display device of claim 26, wherein at least one
projection is formed on the bottom chassis and the mold frame in order to prevent the
shielding means, which is guided to a position to be combined with the receiving
means, from departing from the rear surface of the receiving means.

28. The liquid crystal display device of claim 26, wherein at least one stopper is formed on the mold frame in order to stop the sliding of the shielding means at a position that the shielding means is combined with the mold frame.

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29. A liquid crystal display device comprising:
a lamp unit for generating a light;
a liquid crystal display panel for displaying an image in response to the light;
a panel-driving printed circuit board for controlling an operation of the liquid crystal display panel;
receiving means for receiving the lamp unit and the liquid crystal display panel, the receiving means having a space formed at a predetermined depth on one end of a rear surface thereof to receive the panel-driving printed circuit board; and
shielding means combined to the rear surface of the receiving means, for shielding an electromagnetic wave,

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wherein a projection is formed on the rear surface of the receiving means in order to prevent the panel-driving printed circuit board, which is bent on the rear surface and received in the space of the receiving means, from departing from the rear surface of the receiving means.

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30. The liquid crystal display device of claim 29, wherein the shielding means has a first support formed on an upper surface of one end thereof corresponding to the panel-driving printed circuit board to be depressed in a direction to the panel-driving printed circuit board, in order to prevent the shielding means from electrically contacting with the panel-driving printed circuit board.

31. The liquid crystal display device of claim 30, wherein the receiving means has a second support formed thereon in order to prevent the panel-driving printed circuit board from electrically contacting with the shielding means in such a manner of contacting the first support.

32. A liquid crystal display device comprising:
a lamp unit for generating a light;
a liquid crystal display panel for displaying an image in response to the light;

10 and

receiving means for receiving the lamp unit and the liquid crystal display panel, wherein a plurality of supporting members is formed on a rear surface of the receiving means to prevent the receiving means from being inclined when the lamp unit is combined with the receiving means.

15 33. The liquid crystal display device of claim 32, wherein the plurality of the supporting members is projected at a predetermined height on four corners of the rear surface of the receiving means.

20 34. A liquid crystal display device comprising:
displaying means for displaying an image;
receiving means for receiving the displaying means; and
a printed circuit board for controlling an operation of the displaying means, the printed circuit board being mounted to directly face a rear surface of the receiving
25 means.

35. The liquid crystal display device of claim 34, wherein the receiving means includes a bottom chassis for receiving the displaying means and a mold frame for receiving the bottom chassis, which has an opening in a bottom surface thereof so that the bottom surface of the bottom chassis is exposed.

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36. The liquid crystal display device of claim 35, wherein the printed circuit board is mounted on the exposed bottom surface of the bottom chassis.

37. The liquid crystal display device of claim 36, wherein the printed circuit board includes power supplying means for supplying a power to the displaying means and signal converting means for converting a signal provided to the displaying means.

38. The liquid crystal display device of claim 34, further comprising fixing means for fixing the printed circuit board to the rear surface of the receiving means.

39. The liquid crystal display device of claim 38, wherein the printed circuit board is fixed to the rear surface of the receiving means so as to be placed between the displaying means and the fixing means.

40. The liquid crystal display device of claim 39, wherein the printed circuit board is overlapped at one end thereof with the fixing means.

41. The liquid crystal display device of claim 38, wherein the fixing means includes a bracket which is combined at a first end thereof with the printed circuit board and at a second end with the rear surface of the receiving means.

42. The liquid crystal display device of claim 41, wherein the fixing means has a lower height than a highest height of circuit elements constructing the printed circuit board.

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43. A method for assembling a liquid crystal display device comprising the steps of:

providing displaying means for displaying an image, receiving means for receiving the displaying means, which has at least one first locking structure formed on a bottom surface thereof, and a printed circuit board for controlling an operation of the displaying means;

combining fixing means having at least one second locking structure formed thereon with the printed circuit board;

placing the printed circuit board with which the fixing means is combined on a rear surface of the receiving means;

disposing shielding means for shielding an electromagnetic wave from the printed circuit board and the displaying means, which has at least one third locking structure, on the rear surface of the receiving means; and

fixing the shielding means and the printed circuit board to the receiving means in such a manner as locking means extend through the corresponding locking structure of the first, second and third locking structure from an outside of the shielding means to the displaying means and are respectively combined with the corresponding locking structure.

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44. The method of claim 43, wherein the receiving means includes a

bottom chassis for receiving the displaying means and a mold frame for receiving the bottom chassis, which has an opening formed in a bottom surface so as to expose a bottom surface of the bottom chassis.

5 45. The method of claimed in claim 44, wherein the at least one first locking structure is formed on the bottom surface of the bottom chassis.

10 46. The method of claim 45, wherein the mold frame has at least one through-hole corresponding to the at least one first locking structure.

15 47. The method of claim 44, wherein the printed circuit board is fixed on the exposed rear surface of the bottom chassis.

20 48. The method of claim 47, wherein the printed circuit board includes power supplying means for supplying a power to the displaying means and converting means for converting a signal supplied to the displaying means.

25 49. The method of claim 44, wherein an area of the shielding means, on which the third locking structure is formed, is depressed toward the displaying means.

50. A monitor having a front case defining an effective scene area, a rear case enclosing a liquid crystal display device by a combination with the front case and the liquid crystal display device disposed between the front and rear cases, wherein the liquid crystal display device comprises:

25 displaying means for displaying an image;

receiving means for receiving the displaying means; and
a printed circuit board for controlling an operation of the displaying means, the
printed circuit board directly facing to and being mounted on a rear surface of the
receiving means.

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51. The monitor of claim 50, wherein the receiving means includes a
bottom chassis for receiving the displaying means and a mold frame for receiving the
bottom chassis, which has an opening formed in a bottom surface so as to expose a
bottom surface of the bottom chassis.

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52. A liquid crystal display device comprising:
displaying means for displaying an image;
receiving means for receiving the displaying means; and
a printed circuit board for controlling an operation of the displaying means, the
printed circuit board being placed in order that a bottom surface thereof is below the
receiving means.

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